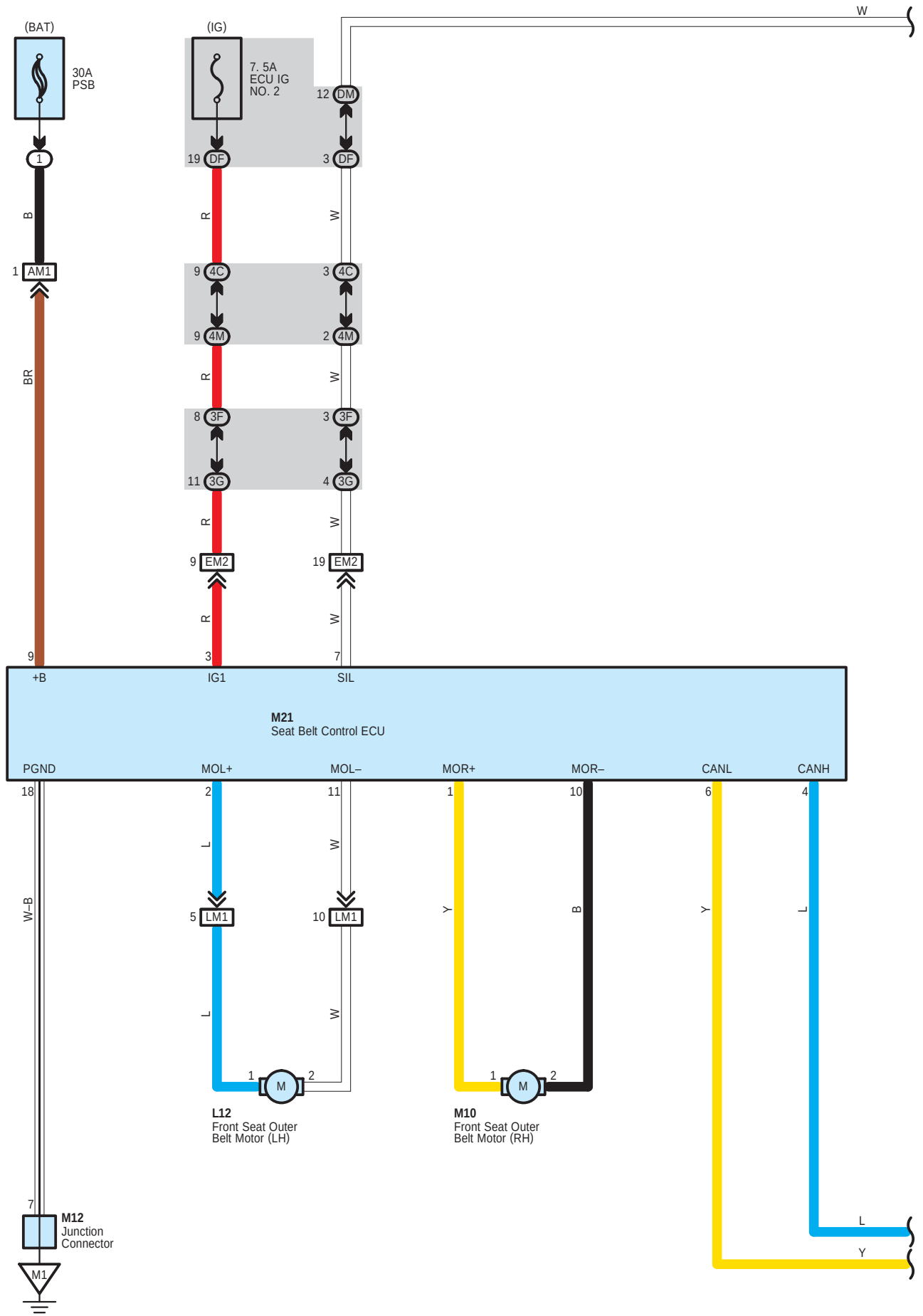
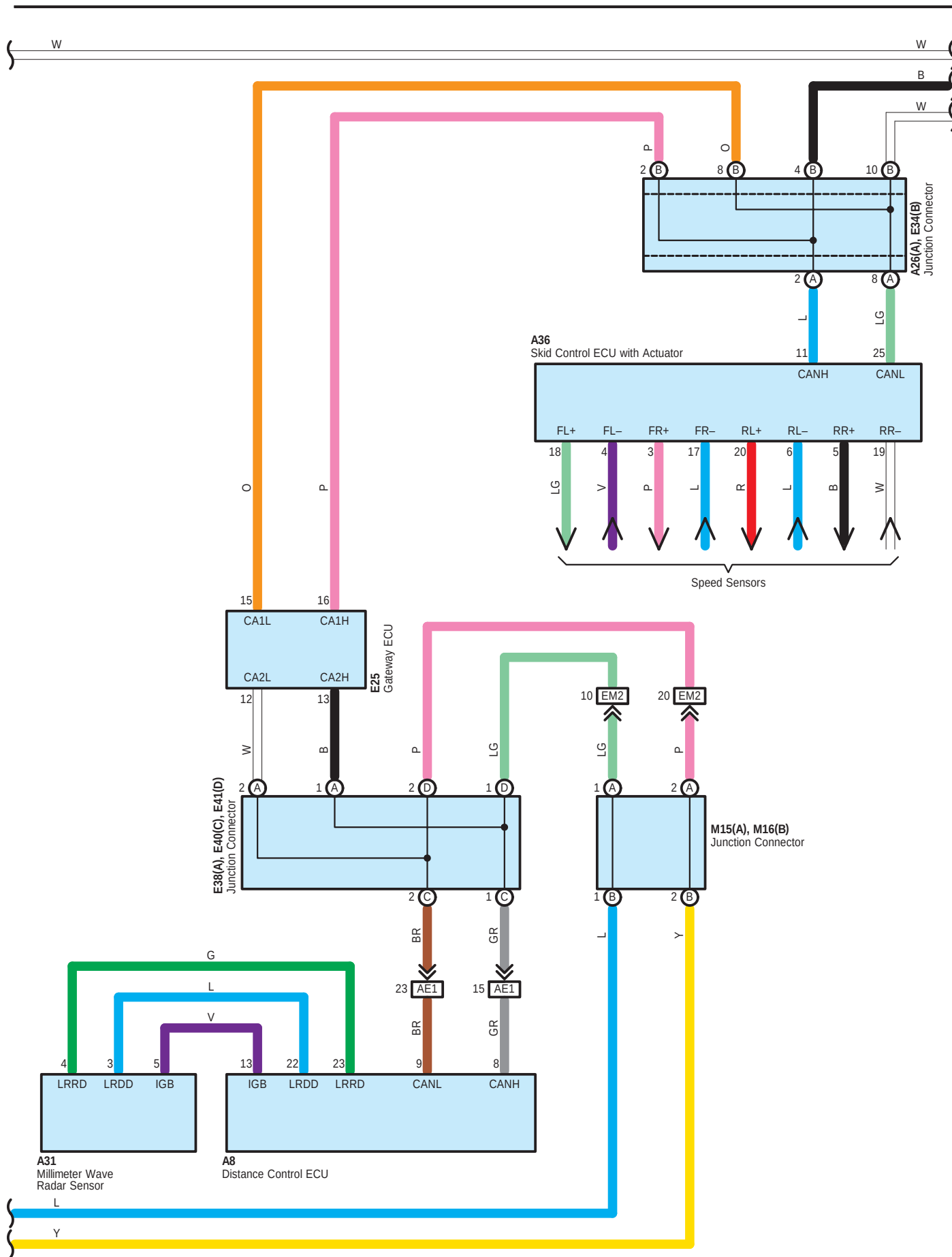
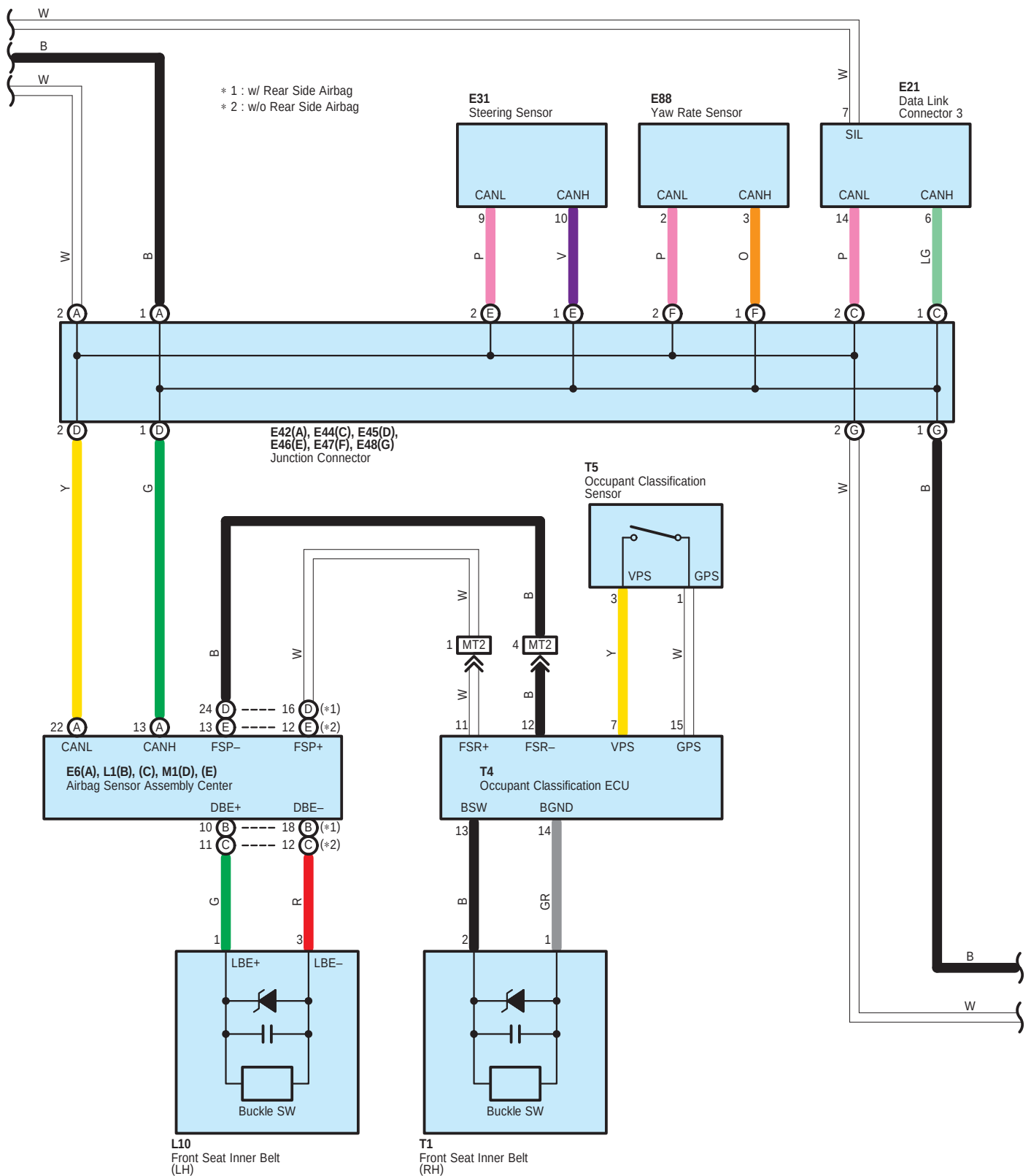


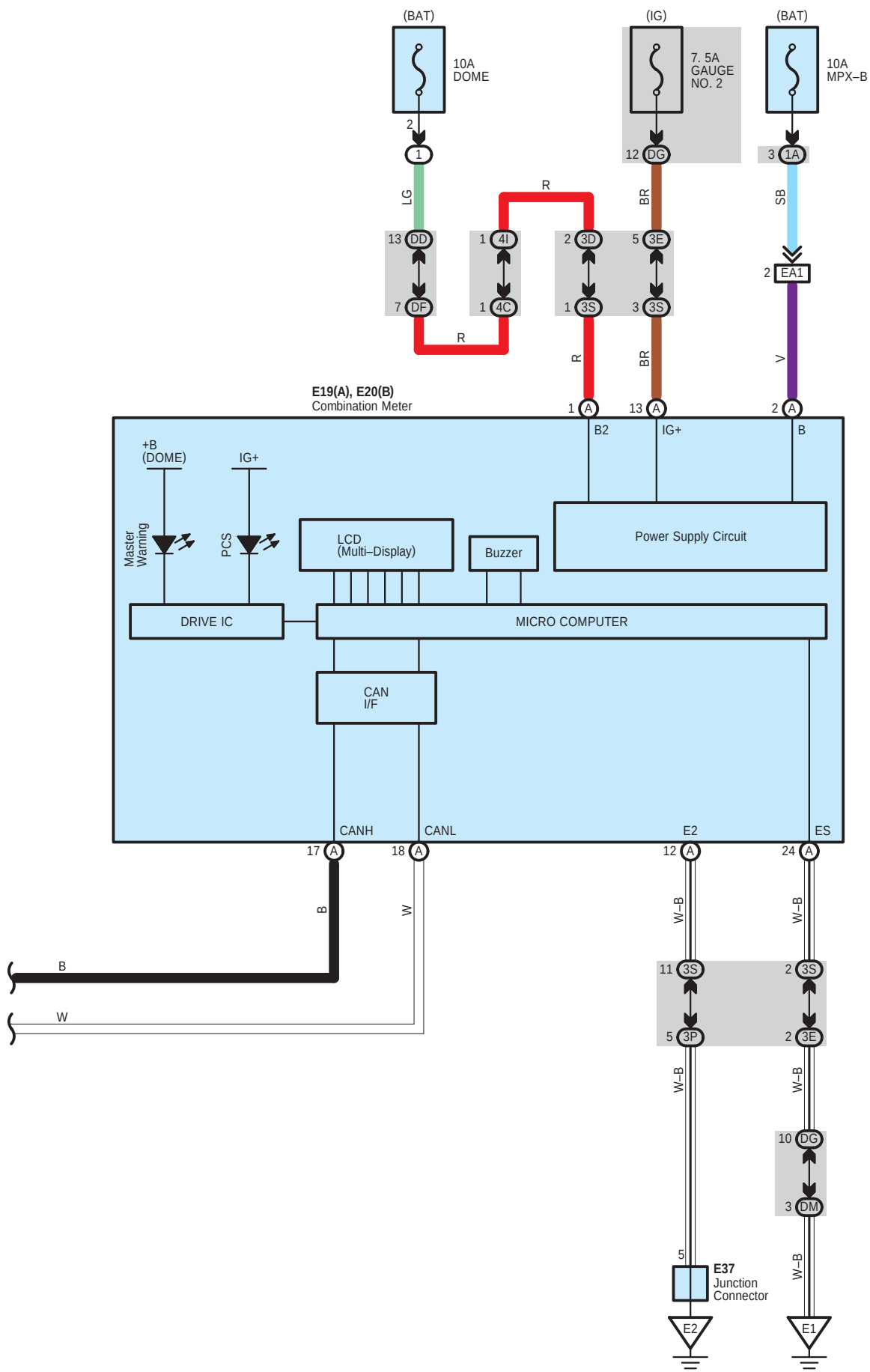
Pre-Collision System





Pre-Collision System





Pre-Collision System

System Outline

- * In the pre-collision seat belt (Hereinafter called PSB), the seat belt is retracted to optimize the restraint performance with the motor by receiving signal from the pre-collision sensor (Millimeter wave radar sensor + distance control ECU) and skid control ECU with actuator.
- * Skid control ECU with actuator sends trigger signal to seat belt control ECU through CAN communication when detecting certain vehicle conditions such as spin condition, under-steer condition and sudden braking. Seat belt control ECU operates PSB upon receiving the signal.
- * Pre-collision sensor detects an on-coming vehicle or object on the road ahead with the millimeter wave radar and determines in advance whether a collision is unavoidable from information of the distance control ECU such as the position, speed and on-coming route of the object. The distance control ECU sends signal to seat belt control ECU through CAN communication to activate PSB motor to retract the seat belt before a crash. This function works even when the vehicle speed is 0 km/h if conditions are right.
- * When the pre-collision system (Hereinafter called PCS) has failure, 'CHECK PCS SYSTEM' is shown on the multi information display in the meter. The warning lamp exclusively for PCS is lit up then. When the system is not available due to dirt on the radar, 'PCS NOT AVAILABLE NOW' is displayed and the warning lamp blinks.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	60	E38	A 46, 58	L10	66
A26	A 60	E40	C 46, 58	L12	62
A31	54	E41	D 46, 59	M1	D 61
A36	55	E42	A 48, 59		E 61
E6	A 58	E44	C 48, 59	M10	62
E19	A 58	E45	D 48, 59	M12	62
E20	B 58	E46	E 48, 59	M15	A 52, 62
E21	58	E47	F 48, 59	M16	B 52, 62
E25	58	E48	G 48, 59	M21	62
E31	58	E88	59	T1	66
E34	B 58	L1	B 61	T4	66
E37	58		C 61	T5	66

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3G		
3P		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AM1	69	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
LM1	70	Floor Wire and Floor No.2 Wire (Under the Rear Seat)
MT2	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

 : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH